

AMENDMENTS TO CLAIMS

1. (Currently Amended) A balance of precision including
 - (a) an elongate base having
 - (i) a first end and a second end; and
 - (ii) a floor;
 - (b) at least one auxiliary weight;
 - (c) a fulcrum connected to said base and having an elongate edge positioned a distance above said floor of said base;
 - (d) an elongate beam assembly positioned on said fulcrum for turning about said fulcrum edge, said beam assembly including
 - (i) a body member positioned over and including on elongate groove contacting said fulcrum edge to permit said member to turn about said edge,
 - (ii) a pair of spaced apart support arms attached to and outwardly extending from said member and each having an elongate upper edge, an outer end, and a notch formed in said outer end thereof,
 - (iii) a symmetrical pan having an upper lip, and a pair of ears extending outwardly from said pan, each ear normally riding in one of said notches such that said ear can turn in said notch and support said pan above said floor when said lever assembly is in equipoise,
 - (iv) a first graduated scale arm attached to and outwardly extending from said body member and having an outer end generally positioned between said fulcrum and said wall and adjacent and level with said upper edge of said

1 wall when said beam assembly is in equipoise, said scale arm including
2 a measurement scale and a scale weight (41A) slidably mounted
3 thereon for balancing said beam assembly when said beam assembly
4 is in equipoise, said measurement scale comprising a series of
5 marked off spaces used to measure weight,
6 an aperture formed in said measurement graduated scale arm to
7 receive removably said auxiliary weight, and
8 a bottom (78).

9 2. (New) A balance of precision including

10 (a) an elongate base having

11 (i) a first end and a second end; and

12 (ii) a floor;

13 (b) at least one auxiliary weight;

14 (c) a fulcrum connected to said base and having an elongate edge positioned a
15 distance above said floor of said base;

16 (d) an elongate beam assembly positioned on said fulcrum for turning about said
17 fulcrum edge, said beam assembly including

18 (i) a body member positioned over and including on elongate groove contacting
19 said fulcrum edge to permit said member to turn about said edge,

20 (ii) a pair of spaced apart support arms attached to and outwardly extending
21 from said member and each having

22 an elongate upper edge,

23 an outer end, and

24 a notch formed in said outer end thereof,

25 (iii) a symmetrical pan having

26 an upper lip, and

27 a pair of ears extending outwardly from said pan, each ear

28 normally riding in one of said notches such that said ear can turn in

said notch and support said pan above said floor when said lever
assembly is in equipoise,

(iv) a first graduated scale arm attached to and outwardly extending from said

body member and having
a pair of edges (60, 62),
an inner end adjacent said body, and
an outer end generally positioned between said fulcrum and said wall
and adjacent and level with said upper edge of said wall when said
beam assembly is in equipoise,
said graduated scale arm including
a measurement scale comprising a series of marked off spaces used
to measure weight,
a scale weight (41A) slidably mounted thereon to slide along said
edges to balance said beam assembly when said beam assembly is
in equipoise,
a location at one of a pair comprising
said inner end, and
said outer end,
to mount said auxiliary weight (43), and
a bottom (78),
said scale weight including a detent (41B) shaped to fit, when said auxiliary
weight is mounted at said location, at least partially around said auxiliary
weight such that a portion of said scale weight can slide along said
graduated scale arm past at least a portion of said auxiliary weight and at
least one of said edges.

3. (New) A balance of precision including
- (a) an elongate base having
 - (i) a first end and a second end; and
 - (ii) a floor;
 - (b) at least one auxiliary weight;
 - (c) a fulcrum connected to said base and having an elongate edge positioned a
distance above said floor of said base;
 - (d) an elongate beam assembly positioned on said fulcrum for turning about said
fulcrum edge, said beam assembly including

- 1 (i) a body member positioned over and including an elongate groove contacting
2 said fulcrum edge to permit said member to turn about said edge,
- 3 (ii) a pair of spaced apart support arms attached to and outwardly extending
4 from said member and each having
5 an elongate upper edge,
6 an outer end, and
7 a notch formed in said outer end thereof,
- 8 (iii) a symmetrical pan having
9 an upper lip, and
10 a pair of ears extending outwardly from said pan, each ear
11 normally riding in one of said notches such that said ear can turn in
12 said notch and support said pan above said floor when said lever
13 assembly is in equipoise,
- 14 (iv) a first graduated scale arm (38A) attached to and outwardly extending from
15 said body member and having
16 a pair of edges (60, 62),
17 an inner end adjacent said body, and
18 an outer end generally positioned between said fulcrum and said wall
19 and adjacent and level with said upper edge of said wall when said
20 beam assembly is in equipoise,
21 said graduated scale arm including
22 a measurement scale comprising a series of marked off spaces used
23 to measure weight,
24 a scale weight (41A) slidably mounted thereon to slide along said
25 edges to balance said beam assembly when said beam assembly is
26 in equipoise,
27 a location at one of a pair comprising
28 said inner end, and
said outer end,
to mount said auxiliary weight (43), and
a bottom (78),
said scale weight including a detent (41B) shaped to fit, when said auxiliary

- 1 weight is mounted at said location, at least partially around said auxiliary
2 weight such that a portion of said scale weight can slide along said
3 graduated scale arm past at least a portion of said auxiliary weight and at
4 least one of said edges, and
- 5 (v) a second scale arm (39) attached to and outwardly extending from said body
6 member and having at least one location for removably mounting a
7 supplemental weight.
- 8 4. (New) The balance of Claim 1 wherein said scale weight (41A) includes a pointer
9 (50) movable into registration with selected points on said measurement scale when
10 said scale weight (41A) is slidably moved along said graduated scale arm.
- 11 5. (New) The balance of Claim 2 wherein said scale weight (41A) includes a pointer
12 (50) movable into registration with selected points on said measurement scale when
13 said scale weight (41A) is slidably moved along said graduated scale arm.
- 14 6. (New) The balance of Claim 3 wherein said scale weight (41A) includes a pointer
15 (50) movable into registration with selected points on said measurement scale when
16 said scale weight (41A) is slidably moved along said graduated scale arm.
- 17 7. (New) The balance of Claim 5 wherein said portion of said scale weight comprises
18 said pointer.
- 19 8. (New) The balance of Claim 6 wherein said portion of said scale weight comprises
20 said pointer.
- 21 9. (New) The balance of Claim 1 wherein
22 (a) when said auxiliary weight is mounted in said aperture, a foot portion (43C) of said
23 auxiliary weight extends through said aperture and outwardly from said bottom (78)
24 of said graduated scale arm;
25 (b) said scale weight includes
26 (i) a bridging section extending over and beneath said bottom (78) of said
27
28

1 graduated scale arm; and,
2 (ii) a detent (41B) formed in said bridging section and shaped to fit, when said
3 auxiliary weight is mounted at said location, at least partially around said foot
4 portion (43C) such that a portion of said scale weight can slide along said
5 graduated scale arm past at least a portion of said auxiliary weight.

6 10. (New) The balance of Claim 2 wherein

7 (a) when said auxiliary weight is mounted at said location, a foot portion (43C) of said
8 auxiliary weight extends outwardly from said bottom (78) of said graduated scale
9 arm;

10 (b) said scale weight includes

11 (i) a bridging section extending over and beneath said bottom (78) of said
12 graduated scale arm; and,

13 (ii) a detent (41B) formed in said bridging section and shaped to fit, when said
14 auxiliary weight is mounted at said location, at least partially around said foot
15 portion (43C) such that a portion of said scale weight can slide along said
16 graduated scale arm past at least a portion of said auxiliary weight.

17 11. (New) The balance of Claim 3 wherein

18 (a) when said auxiliary weight is mounted at said location, a foot portion (43C) of said
19 auxiliary weight extends outwardly from said bottom (78) of said graduated scale
20 arm;

21 (b) said scale weight includes

22 (i) a bridging section extending over and beneath said bottom (78) of said
23 graduated scale arm; and,

24 (ii) a detent (41B) formed in said bridging section and shaped to fit, when said
25 auxiliary weight is mounted at said location, at least partially around said foot
26 portion (43C) such that a portion of said scale weight can slide along said
27 graduated scale arm past at least a portion of said auxiliary weight.

28